

MONTHLY REPORT

FOR

NOVEMBER - 1922.

File Copy

143- (Nov. 1922)



December 5, 1922

Dear Sir:

The following is my report of Yellowstone National Park, and the operations of the park for the month of November, 1922:

I. GENERAL CONDITIONS:

Continued good weather made possible an unusual amount of outside work, and the Yellowstone Park Camps Company continued its work on the large building at Mammoth Hot Springs. Some snow fell the early part of the month and more during the last two days but even after the last snowfall automobiles were able to go through the park on the main loop road. The Cooke City automobile stage traversed the Tower Falls and Cooke City road with little difficulty because of snow conditions during the entire month but it is anticipated that horses and team will be necessary during December.

Weather

The following records are quoted from the report for November of the Observer in charge of the local United States Weather Bureau at Mammoth Hot Springs, Park Headquarters:

Temperature: Monthly mean,  $25.8^{\circ}$ , is  $3.5^{\circ}$  below normal. The first half of the month was cold, but during the latter half moderate temperatures prevailed. The lowest was  $1^{\circ}$  below zero, occurring on the 13th.

Precipitation: Total, 0.96 inch, is 0.46 inch below normal. The first 12 days were unsettled with frequent light



snow; generally fair weather prevailed thereafter until the 29th which marked the beginning of another storm period.

Snowfall: Total 11.9 inches; normal 10.5 inches. The snowfall was largely the result of two storms, one in progress at the beginning and the other at the end of the month.

Wind: Average hourly velocity, 6.0 miles, is with one exception, the lowest of record for November. The maximum velocity, 31 miles from the north on the 18th, is unusually light.

Sunshine: Percentage of possible, 58, is the greatest for November during the past 13 years.

Snow Depths: On November 30th, rangers on stations reported the following snow depths:

<u>Station</u>	<u>Inches</u>
Sylvan Pass	8
Riverside	11
Gallatin	11
Lake	6
Snake River	8
Upper Yellowstone	13
Tower Falls	6
Hellroaring	6
Buffalo Farm	6
Slough Creek	6
Crevice	9

Travel: There were very few visitors in the park during the month of November. The Chief Ranger's Monthly Report of Travel is attached hereto and shows the approximate number entering the park. At this season of the year it is hard to ascertain exactly the numbers entering the Gardiner gateway, as many come in the mail stage, others walk, and still others come in their own cars. At this season of the year rangers are not always on station duty, but rather, are patrolling the northern line of the park. Hence, the uncertainty as to the accurateness of figures on the Travel Report.



## II. PERSONNEL:

On November 1st there were 108 on the payrolls which had been decreased on November 30th to 80. The following list shows the number of appointees of various classes serving during the month with a general statement of the kind of work in which they were engaged:

<u>No.</u>	<u>Class</u>	<u>Kind of work performed</u>
1	Superintendent	General administration and supervision of all activities in the park.
1	Asst. Supt.	Administration, purchasing, disbursing.
1.	Asst. Supt.	Information, reports, etc.
2	Asst. Engineers	1 in charge of engineering work in park, 1 assisting.
7	Clerks	1 Financial Clerk; 1 Cost Accounting Clerk; 1 Personnel, file and report clerk; 1 Time and Payroll Clerk; 2 Stenographer-Typists on stenographic work, clippings, etc.; 1 Stenographer-Typist on orders, proposals and vouchers.
3	Electricians	Operated power plant regular shift, including Sundays, read meters, did necessary line work.
4	Foremen	1 in charge of Headquarters Corral; 1 running steam roller on new Lake road and repairing sprinkler tanks at Mammoth latter part of month; two on construction (1 furloughed off. October 24-Apr. 24, 1923)
1	Telegraph Operator	Sent and received all Government Western Union messages, operated one shift on telephone switchboard.



2	Telephone Switch-board operators.	Operated telephone switchboard daily shifts, including Sundays.
1	Master Mechanic	In charge of shops and repair to heavy road machinery.
1	Blacksmith	General blacksmith work, including shoeing of horses in shop, overhauling and repairing tools and equipment.
1	Master Painter	General shop work, including painting equipment and buildings.
6	Laborers	Teaming, freighting, assisting mechanics and miscellaneous work at headquarters.
1	Steward & Master of Transportation	In charge of all transportation and of storehouses.
1	Chief Buffalo Keeper	In charge of tame buffalo herd.
2	Asst. Buffalo Keepers	1 assisting Buffalo Keeper; 1 in charge of hay ranch operations at Slough Creek.
1	Buffalo Herder	Assisting Buffalo Keeper
1	Master Plumber	in charge of general plumbing and water and sewer systems.
1	Auto Mechanic	On duty at power plant.
1	Machinist	Repairing equipment. <del>Appointed effective November 6, 1922.</del>
1	Carpenter	Repairing buildings at headquarters.
1	Chief Park Ranger	In charge of ranger force.
1	Fish & Game Warden	In charge special observation and reports on wild animals.
1	First Asst. Chief Park Ranger.	In charge of northern district.



2	Assts. Chief Park Ranger.	1 on duty at Lake District; 1 in charge of Western District.
14	Park Rangers	Patrolling park borders, protecting game, miscellaneous duties. (1 resigned effective November 10th, 1922).
6	Temporary Rangers	Patrolling, miscellaneous duties. (Services of one terminated Nov. 15th; 1, November 30th.)
7	WAE Park Rangers	In charge of stations.

#### Leaves of Absence

H. M. McFarland, Foreman, November 6-22, 15 days.  
 Joseph Douglas, Asst. Chief Park Ranger, Nov. 7 (noon)-14, 6½ da.  
 Charlie Stinnett, Blacksmith, Nov. 4-6 (noon), 1½ da.  
 Berenice J. Finney, Clerk, Nov. 9-14, 4 da.  
 Julia S. Stockett, Stenog-Typist, Nov. 9-14, 4 days.  
 Joseph Joffe, Clerk, Nov. 10-12, 1 da.  
 E. A. Collins, Electrician, Nov. 15-30, 13 da.  
 Andrew R. Edwin, Clerk, Nov. 10-16 (noon), 4½ da.  
 Charlie Stinnett, Blacksmith, Nov. 18, 1 da.  
 Bert Stinnett, Master Mechanic, Nov. 21-22, 2 da.  
 Lucy Bilkert, Clerk, Nov. 21 (noon), ½ da.  
 Jas. N. Dupuis, Ranger, Nov. 22-24, 3 days.  
 Nellie Roach, Telephone Operator, Nov. 18, 1 da.  
 Lucy Bilkert, Clerk, Nov. 24 (noon), ½ da.  
 Berenice J. Finney, Clerk, Nov. 24 (noon), ½ da.  
 Julia S. Stockett, Clerk, Nov. 24 (noon), ½ da.  
 Charlie Stinnett, Blacksmith, Nov. 25, 1 da.  
 John Bauman, Park Ranger, Nov. 24-25, 2 da.  
 Edward Burkett, Park Ranger, Nov. 24-27, 3 da.  
 Samuel T. Woodring, Chief Park Ranger, Nov. 1-2, 2 da.  
 Nathan Sandel, Telegraph Operator, Nov. 9-12, 2 da.

Mrs. Helen M. Hall, Stenog-Typist, Nov. 14-18, 15 days,  
 (Sick Leave Requested).

#### Appointments

Wm. I. Davis, Assistant Engineer, \$175 per month, plus increase of compensation, and quarters, effective November 28, 1922, from Temporary to Probational.



John D. Fraser, Machinist, \$1320 per annum, plus increase of compensation and quarters, effective November 6th, 1922.

#### Terminations

Matilda Hyrkas, Telephone Operator, (Temporary, Intermittent Service), 40¢ per hour, services terminated effective November 15, 1922. (Requested).

Sam Hurless, Temporary Park Ranger, \$1200 per annum, plus increase of compensation, and quarters, services terminated close of November 15, 1922.

Edward B. Cogswell, Temporary Park Ranger, @ \$1200 per annum plus increase of compensation, and quarters, services terminated close of November 30, 1922.

#### Resignations

George A. Grant, Park Ranger, @ \$1200 per annum, plus increase of compensation and quarters; resignation effective close of November 10, 1922.

#### Furloughs

Carrie O. Haumesser, Stenog-Typist, \$1320 per annum, plus increase of compensation and quarters, furloughed October 1st to December 31, 1922, inclusive.

Harry R. Marshall, Auto Mechanic, \$1320 per annum, plus increase of compensation and quarters, furloughed October 16, 1922 to April 15, 1923, inclusive.

Edmund J. McKeon, Auto Mechanic, \$1320 per annum, plus increase of compensation and quarters, furloughed Nov. 1, 1922 to April 30, 1923, inclusive.

Charles W. Enochs, Foreman, \$1800 per annum, plus increase of compensation and quarters, furloughed October 24, 1922, to April 23, 1923, inclusive.



In addition to the regular employees listed above under appointment, the following were employed temporarily by the day:

	<u>November 1st</u>	<u>November 30th</u>
Cooks	1	
2-horse teamsters	4	1
Laborers	10	2
Skilled Laborers	18	6
Plumbers	2	2
	<hr/>	
	35	11
Appointees	<u>73</u>	<u>67</u>
Total on Payroll	108	78

### III. WORK COMPLETED:

#### (a) Construction of Physical Improvements

Improvements to Water Supply Intake: Every spring when Glen Creek is in flood considerable trouble has been caused by the area back of the dam at the intake filling up with gravel, thus interrupting the flow of water to the reservoir. As this water is used for domestic purposes at Mammoth and also supplies power for the hydro-electric plant it is imperative that a constant flow be maintained.

To eliminate the difficulty an opening thirty inches wide was cut through the center of the concrete dam. Oak guides for a gate were bolted to the concrete on each side of the opening. The gate is actuated by a rack and pinion contrivance which engages the gate stem and is supported over the dam on timbers. When the gate is raised, a strong current is created, sufficient to flush out all gravel and debris.

#### (c) Miscellaneous Improvement Work:

The Steward and Master of Transportation, with two helpers during the month, reports five trucks hauling forage and fuel from the railroad terminal at Gardiner, to headquarters.



The Master Plumber: The work of installing the heating plant in the Post Office building was completed; new plumbing fixtures were installed in some of the living quarters; work was done on the water system at Mammoth; and repair work on the heating system of the Community House was begun.

The Master Painter caldinned walls, varnished woodwork, oiled floors, papered rooms, etc., in several quarters, most of his time being devoted to work in the Post Office and Information Building. Stormsashes at some quarters were repaired and painted, and four sprinkler wagons were painted.

The Master Mechanic did general repair work on trucks.

The Blacksmiths completely overhauled five graders; overhauled 1 Novo gas engine; shod horses, and did general repair work.

The Carpenter partly ceiled the garage, worked on storm windows and storm sheds.

Buildings and Corrals: A foreman and two other men looked after the stables, corrals, grounds, and furnaces.

The Telephone System and Power Plant were operated in the usual manner. The Power Plant was run constantly with the results shown in comparison for November 1921, as follows:

	<u>1921</u>	<u>1922</u>
Total current generated, in KWH	14,960	29,450
Of this, sold to public utilities at 5¢ per KWH	2,313	2,213
Consumed for street lighting	4,181	2,061
Balance, consumed in Govt. buildings, for power & lighting, lost on lines in transit	8,466	24,176
Peak load during month in KWH	38	64



The Telephone and Switchboard Office was open daily from 6:30 A.M. to 9:00 P.M. until the 8th of October, and on that date hours from 7:30 A.M. to 8:45 P.M. went into effect.

#### Switchboard Calls

On Government Local Lines .....	3608
On Hotel Company lines .....	345
On Long Distance Connections .....	<u>149</u>
Total	4102

#### Telegrams

Government Sent .....	60
Commercial Sent .....	<u>29</u>
Total	89
Government Received .....	26
Commercial Received .....	<u>20</u>
Total	46

#### Office Force

The office force was busy with the usual routine work which includes orders, payment of vouchers, preparation of accounts, reports, general correspondence, etc. Considerable work was done on newspaper clippings for the years 1921-22, and in the preparation of photographs in scrap books, and a complete file of same.

#### IV. WORK IN PROGRESS

##### (a) Construction of Physical Improvements

Construction of the Upper Basin Sewer System: Except for placing the plank cover on the 20 x 40 foot concrete sedimentation tank, making a few connections and general clearing up, this project is now finished. The crew was moved into Mammoth November 14th and disbanded.

The concrete walls and partitions of the tank were poured on November 3rd. The pressure of hot water under the floor of the tank was sufficient to cause some difficulty in stopping leakage through the green concrete, and it has been



impossible to make the floor impervious, but the amount of hot water now penetrating the floor is too small to cause apprehension.

A ten inch line was laid from the tank to the river to care for the effluence and for use when it is desired to pass the sewage directly into the river. After the outside forms were removed, the space was filled with rock and earth and the grounds surrounding the tank leveled off to present a neat appearance.

The six inch sewer line from the hotel was connected into the new ten inch trunk line. This required the placing of 80 lineal feet of 6 inch tile and the construction of a concrete manhole.

The concrete mixer and other machinery and tools were hauled in to Mammoth with the exception of the steam engine and centrifugal pump. It was thought advisable to leave these in case they are needed in the spring to pump out the tank.

Yellowstone Park Camps Company: The construction activities of the Camps Company during December were limited to Mammoth Camp. A crew of fifty men continued work on the new central building. Owing to unusually favorable weather conditions work on this building has progressed rapidly. On November 30th the East and West wings were almost entirely shingled and the central unit was framed and trussed. It was estimated that the building was 50% completed.

A new eighty-horse power boiler arrived and is now being installed in the boiler house at Mammoth Camp. This boiler will supplement the present boiler for laundry purposes and will in addition be utilized to heat the new main building and for cooking purposes in the new kitchen.

During the month the Camps Company placed orders for two new White two-ton trucks for delivery in the spring of 1923. This will bring the fleet of the Camps Company up to eleven cars, consisting of six heavy duty trucks, three Ford delivery trucks and two passenger cars for administration purposes.

## VII. POLICIES

There were no changes in policy during the month.



## VIII. COST OF OPERATION

The cost of operation of Yellowstone National Park will be shown on the Cost Accounting Report for the month of November, which report will be forwarded during the week.

## IX. OTHER MATTERS OF INTEREST

### Wild Animals

Game Conditions: During the month of November game conditions were very satisfactory. Forage is ample on the higher ranges. On the lower ranges, however, it is not so good owing to the June drought. Antelope, deer, elk, mountain sheep and moose are all in splendid shape to withstand the winter.

On the 15th of November the hunting season closed on elk in Wyoming and Montana, and on the 30th open season on deer closed. In the State of Idaho, however, the season did not open until December 1st and will continue until the 15th. But 33 elk were killed on the north side of the park during the hunting season, 18 on the west side and 10 were killed in the vicinity of Sylvan Pass district. 12 deer were killed on the north side and 2 on the East, and one mountain sheep on the east side.

Elk: Numerous counts have been made of various elk herds with these results: 2000 at Hellroaring; 700 at Tower Falls; 600 at Blacktail; small herds on Sepulchre Mountain and Mt. Sverts; and 200 at Slough Creek. Ordinarily, there are more at the Slough Creek ranches at this time of the year. Feeding will begin early in December.

It is interesting to note from observation of various rangers in sections of the park frequented by elk that approximately one third of the entire elk herd is bulls.

The storm early in November brought great majority of elk that normally belong to the Gallatin herd into the region between the Gallatin Range and the park line north from the Madison River to Gallatin Station. Since entering this country there has been very little movement of this herd although probably several hundred have left the park. On the morning of November 15th one herd of 212 head were seen on Sandy Butte



and several other small bands, making a total of about 75 additional head seen in this locality. One herd of 175 head was seen in the Gallatin Valley during November. This is the largest number that has been seen in that district, but there are several small bands of about ten to seventy-five. All of these elk are in excellent condition and forage and snow conditions have been practically ideal during the entire month. Careful counts have shown that well over one-third of these elk are bulls. Observations show calves to be well over the average number.

Deer: There has been an unusually large number of deer in the Western District this fall. A total of about twenty-one head were seen at various times, the majority of these along the Madison River, and since have been numerous over the entire district. Residents of West Yellowstone informed the Assistant Chief Ranger of the Western District that never before have deer been seen in their district.

Antelope: On the 24th, the Chief Ranger, the First Assistant Chief, Game and Fish Warden and three rangers rode over the entire country around Blacktail, Turkey Pen trail, Mt. Everts, the foot of Sepulchre, and Gardiner, getting antelope counts. 234 antelope were counted. It is very probable that there are a few antelope around Geode and Ox Bow Creeks which were not seen or counted. It seems possible that former Park Naturalist Skinner's report was too high.

All antelope are in first class condition and will probably withstand the hardships of the winter in first class shape. There are no antelope out of the park at the present time.

Moose: Seventeen moose were seen at Upper Yellowstone by rangers at Lake Station while bringing in horses to headquarters. It is noticeable that all were cows and this brings to mind the seriousness of the effect of open season on bull moose.

Mountain Sheep: Seventeen mountain sheep were seen on the Gardiner road towards the last of the month; 62 at Junction Butte; and 12 at Out-Off Mountain. Never before have sheep been reported as having been seen at the latter place.

Buffalo, tame herd: The buffalo have begun to come down to the lower country on the Lamar River, but feeding has not yet been begun at the Buffalo Ranch.



Small Animals: Along the park line in the Madison Valley martin and weasel signs were more numerous than they were last year and on November 17th rangers in that district saw signs of an evidently large family of otter having entered the park near Gneiss Creek.

Predatory Animals: War has been waged upon predatory animals with the result that 65 coyotes were killed by rangers on outlying stations and about headquarters. This is an unusual showing.

Ranger Patrols: Regular patrols were made by rangers on horseback during most of the month, but by December 1st all horses had been brought in on account of snow conditions and patrols will be made on skis for the balance of the season.

On November 29th the two rangers stationed at Crevice, on the north boundary of the park, were brought into headquarters and the Crevice station disbanded for the winter as a permanent ranger station, but to be used as a snowshoe cabin by rangers from Hellroaring and Gardiner stations, who will patrol the Crevice territory jointly. The Hellroaring station last year was used as a snowshoe cabin but due to the fact that it is more securely built and therefore warmer than Crevice patrols will be made from Hellroaring instead of Crevice.

There has been a comparatively large amount of snow at Riverside Station at all times during the month. Conditions in places where game are located have been ideal for there has been practically no snow in the Gneiss Creek country. All of the high, grassy ridges above the creek have been practically bare the entire month. Snowfall on the West side has been far below normal.

#### Arrests and Violations of Law

On November 7th, Vernon Spencer, of Cody, Wyoming, was arrested by Ranger Wisdom, of the Sylvan Pass Ranger Station, on a charge of trespassing. He is to be brought into headquarters and tried in the spring. Two arrests were made in the Bechler River country by rangers, but evidence plainly shows that the men were not hunting but that they were lost and the cases were then dismissed. These men evidently came into the park at a place where the line is not clearly marked.



A hunter penetrated the park for about a quarter of a mile three miles north of West Yellowstone. Ranger Anderson found his tracks entering the park and followed him but the man made a circle and left the park about a mile from where he entered. He followed his tracks out of the park to where the man hit the main road. He caught a ride in an automobile and went into town and it was impossible to connect any person definitely with the crime although rangers are quite positive as to the identity of the person. This is the only violation of park law in the Western District this hunting season.

#### Sickness and Medical Attention

Dr. J. M. Wolfe, National Park Service physician, reports having made 14 resident calls on government people and having had 14 office calls.

#### Religious Services

Services were held in the Chapel on the evening of the 5th, and the morning of the 19th, by W. Friend Day, Layman of the Episcopal Church, of Emigrant, Montana.

#### School

Below is the report of the school for November, under the direction of Mrs. Marriott, teacher:

No. of pupils enrolled,	Boys	9	Girls	8
No. days taught			18	
No. days attendance			142½	
No. days absence	5	5		1½
No. times tardy		1		1
Percentage of attendance		97%		98-8/10%
Percentage of punctuality		99 %		99 %

#### Circulars

Circular No. 29, dated November 1, 1922, regarding Doctor's fees is attached hereto.

#### IX. RECEIPTS AND REMITTANCES

Certified check #828, dated Nov. 21, 1922,  
drawn by H. W. Child, on the



National Bank of Montana, Helena, Montana, to the Director, National Park Service, amount .....	10.72
Certified check #462, dated Nov. 20, 1922, drawn by H. W. Child, on the National Bank of Montana, Helena, Montana, to the Director, National Park Service, amount .....	85.34
Certified check #1268, dated Nov. 9, 1922, drawn by Howard H. Hays, on the North- western National Bank, Livingston, Montana, to the Director, National Park Service, amount .....	184.63
Certified check #3490, dated Nov. 8, 1922, drawn by Elizabeth Trischman, on the Yegen Bros. Bankers, Gardiner, Montana, to the Director, National Park Service, amount .....	.79
Postal Money Order #50,939, dated Nov. 16, 1922, drawn by the Postmaster of Yellowstone Park, on the Postmaster at Washington, D. C., amount .....	<u>.74</u>
	\$ 282.22

Cordially yours,

Leroy Hill,  
Acting Superintendent.

The Director,  
National Park Service,  
Department of the Interior,  
Washington, D. C.

JBS



## U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

## MONTHLY METEOROLOGICAL SUMMARY.

ion, YELLOWSTONE PARK, WYO.; month, NOVEMBER, 1922., 19

TEMPERATURE. (Degrees Fahrenheit.)			Precipitation. (In inches and hundredths.)	Character of day.	Sunshine, percentage.	ATMOSPHERIC PRESSURE. (Reduced to sea level; inches and hundredths.)	
Max.	Min.	Mean.				Mean	lowest
36	25	30	.16	Cloudy	2	Mean	30.25; highest 30.79, date 12
25	17	21	.14	Cloudy	0	lowest	29.48, date 29
27	13	20	.09	PtCloudy	71	TEMPERATURE.	
34	7	20	0	PtCloudy	75	Highest	49, date 27; lowest -1, date 13
33	13	23	.02	Clear	100	Greatest daily range	31, date 23
34	10	22	T	Clear	100	Least daily range	7, date 9
41	14	28	0	Cloudy	39	Mean for this month in	
40	23	32	T	Cloudy	11	1871	80 89 27 98 25 07 30 16 23
40	33	36	.01	Cloudy	2	1872	81 90 31 99 36 08 29 17 37
37	27	32	.16	Cloudy	0	1873	82 91 27 00 29 09 31 18 27
28	15	22	.01	Cloudy	30	1874	83 92 30 01 35 10 31 19 23
24	6	15	T	PtCloudy	65	1875	84 93 -- 02 29 11 21 20 26
27	-1	13	0	Clear	100	1876	85 94 36 03 32 12 32 21 32
35	10	22	0	Clear	100	1877	86 95 26 04 36 13 32 22 26
40	15	28	0	Clear	100	1878	87 34 96 19 05 30 14 34 23
43	23	33	0	Cloudy	23	1879	88 27 97 30 06 27 15 27 24
39	31	35	.01	Cloudy	31	Normal for this month 29.3	
34	11	22	.06	PtCloudy	94	Absolute maximum for this month for 36 years 68	
36	9	22	0	PtCloudy	50	Absolute minimum for this month for 36 years -27	
35	14	24	.01	PtCloudy	64	Average daily excess (+) or deficiency (-) of this month as compared with the normal -3.5	
36	7	22	0	Clear	100	Accumulated excess (+) or deficiency (-) since January 1 -458	
42	15	28	0	Clear	100	Average daily excess (+) or deficiency (-) since January 1 -1.4	
40	9	24	0	Clear	100	PRECIPITATION.	
39	12	26	0	Clear	100	Total this month 0.96; snowfall 11.9	
42	12	27	0	Clear	95	Greatest precipitation in 24 hours 0.26, date 29	
46	25	36	0	PtCloudy	54	Snow on the ground at end of month 4.4	
49	21	35	0	PtCloudy	84	Total precipitation this month in	
40	27	34	0	Cloudy	0	1871	80 89 2.19 98 1.55 07 0.81 16 0.69
35	17	26	.26	Cloudy	4	1872	81 90 0.49 99 0.03 08 0.25 17 0.66
25	4	14	.03	PtCloudy	62	1873	82 91 2.00 00 1.17 09 1.16 18 0.66
Total.					58	1874	83 92 1.90 01 1.25 10 1.53 19 0.80
						1875	84 93 2.51 02 2.35 11 2.33 20 1.13
						1876	85 94 0.15 03 1.40 12 1.28 21 2.55
						1877	86 95 1.50 04 0.18 13 1.54 22 0.96
						1878	87 96 3.92 05 1.21 14 0.29 23
						1879	88 97 2.98 06 0.63 15 1.15 24
						Normal for this month 1.44	
						Excess (+) or deficiency (-) of this month as compared with the normal -0.48	
						Accumulated excess (+) or deficiency (-) since January 1 -6.50	
						MEAN RELATIVE HUMIDITY (Percentage).	
						6 a. m., 80; Noon m., 59; 6 p. m., 68	
						WIND.	
						Prevailing direction South; total movement 4336 miles;	
						average hourly velocity 6.0; maximum velocity (for five minutes) 31 miles per hour, from North	
						on 18	
						WEATHER.	
						Number of days, clear 10; partly cloudy 9; cloudy 11;	
						on which .01 inch, or more, of precipitation occurred 12	
						MISCELLANEOUS PHENOMENA (dates of).	
						Auroras 0; halos: solar 0, lunar 0	
						Hail 0; sleet 0; fog 0	
						Thunderstorms 0	
						*Frost: light ---; heavy ---; killing ---	

Note.—"T" indicates trace of precipitation.

autumn frosts are not recorded after the occurrence of "killing," except in Florida and along the immediate coast of the Gulf of Mexico.

E. H. Fletcher, Observer.

Weather Bureau.



U.S. DEPARTMENT OF AGRICULTURE,

WEATHER BUREAU.

MONTHLY

METEOROLOGICAL SUMMARY.

STATION

Yellowstone Park, Wyo.

MONTH

NOV 1927, 19



DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE  
YELLOWSTONE NATIONAL PARK

November 1, 1922.

CIRCULAR NO. 29.

On several occasions during the past summer it has been brought to my attention that some of the Government's employees do not understand that they must pay for medicines prescribed by the official physician, even though a deduction is made from their pay for medical service. The deduction made from pay of an employee covers the services of the official physician, but does not cover medicines, nor does it cover the physician's services in cases involving serious operations, obstetrics and similar cases. In such cases the official physician is at liberty to make such extra charges as are reasonable.

The charges cannot exceed those now in effect in the city of Helena. The Helena schedule of charges was adopted by the National Park Service as a basis for limitation of medical fees in Yellowstone National Park during the past summer.

HORACE M. ALBRIGHT  
Superintendent

HMA/jj